

EAST 6/25/04

L Number	Hits	Search Text	DB	Time Stamp
4	15	("5313618" "5321828" "5329293" "5351626" "5382420" "5410547" "5479634" "5486876" "5493315" "5493637" "5546562" "5564041" "5594890" "5630102" "5680583" "7510934").PN. ("4899128").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/25 07:51
-	2		USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/22 09:09
-	101	((("4777600" or ("4870414" or ("5461379" or ("5617314" or ("5991340" or ("5481625" or ("6188977" or ("5187517" or ("5300978" or ("5535384" or ("6249784" or ("4326290" or ("5383142" or ("5477478" or ("5666468" or ("5671022" or ("5859789" or ("6021128" or ("6053030" or ("6204785" or ("4386546" or ("4480259" or ("4489435" or ("4903285" or ("4959811" or ("5025396" or ("5193092" or ("5220273" or ("5253328" or ("5306959" or ("5341371" or ("5369621" or ("5381127" or ("5444649" or ("5452226" or ("5465353" or ("5493520" or ("5586068" or ("5591931" or ("5608801" or ("5682538" or ("5694401" or ("5708684" or ("5719841" or ("5745509" or ("5835921" or ("5835917" or ("5833379" or ("5856797" or ("5855441").PN. (plurality adj string) near3 differenc45	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/07 10:36
-	74	(plurality adj data) near3 differenc45	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/07 12:47
-	84115	(string or data) near3 stream	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/07 13:10
-	5888	((string or data) near3 stream) near3 (compar45 or differ87)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/07 13:18
-	4388	((string or data) near3 stream) near3 (differ87)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/07 14:10
-	1998	717/4.ccls. and differenc44	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/07 14:11
-	994	717/4.ccls. and differenc44 and trac44	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/07 14:11

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C:\APPS\east\workspaces\09 805423 p6.wsp

-	925	string near3 differenc44	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 10:45
-	1	((string near3 differenc44) same (symbol near3 (table or array)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 10:48
-	100	((string near3 differenc44) same ((table or array)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 10:46
-	1	((string near3 differenc44) same (symbol near3 (table or array or matrix)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 10:51
-	31	((string near3 compar44) same (symbol near3 (table or array or matrix)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 10:51
-	8	("4295124" "4558302" "4575795" "4651300" "4655620" "4671684" "4672571" "4728925").PN. 4899128.URPM.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 13:33
-	777	string near3 diff88	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 14:20
-	1835	string adj diff88	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 14:43
-	31	(display44 or print44) near3 (string adj diff88)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 14:48
-	17	(display44 or print44) near3 (string adj compar85)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 14:49
-	929	string near3 (diff or differenc44)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 16:53
-	56	((string near3 (diff or differenc44)) same (print44 or display44))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 16:45
-	2482	stream near3 (diff or differenc44)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 16:53
-	466	(data or packet or string) near3 stream near3 (diff or differenc44)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 16:54

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-	15	717/4.ccls. and (differenc44 near3 trac44)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/07 14:14
-	3	717/4.ccls. and diem.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/07 14:28
-	5	("5050168" "5313616" "5507030" "5539907" "5732273").PN. 5 5933640.URPM.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/07 14:19
-	82	703/4.ccls. and (trace near3 (compar46 or differ88))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/07 14:19
-	28	(703/4.ccls. or 717/4.ccls.) and ((data adj stream) near3 differ88)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/07 16:37
-	7	(703/4.ccls. or 717/4.ccls.) and ((data adj stream) near3 compar88)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/07 16:38
-	30985	core near3 (compar44 or differ88)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/08 07:34
-	117	(717/4.ccls. or 703/4.ccls.) and (core near3 (compar44 or differ88))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/08 07:47
-	1355	716/4.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/08 08:11
-	84363	compar44 near3 test46	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/08 08:11
-	557	(717/4.ccls. or 703/4.ccls.) and (compar44 near3 test46)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/08 08:12
-	33	(717/4.ccls. or 703/4.ccls.) and ((compar44 near3 test46) same (multiple or plural))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/08 08:30
-	9	(717/4.ccls. or 703/4.ccls.) and (compar44 near3 test46 near3 processor)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/08 08:41
-	230	(717/4.ccls. or 703/4.ccls.) and (compar44 near3 test46 near3 (result or data or string or stream or output or input))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/08 08:42


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-	466	(data or packet) near3 stream near3 (diff or differenc44)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 16:54
-	443	(data) near3 stream near3 (diff or differenc44)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 16:54
-	3	((data) near3 stream near3 (diff or differenc44) near3 (print44 or display44))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 17:02
-	5123	(trace or profile) near3 (diff or differenc44)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 17:03
-	307	((trace or profile) near3 (diff or differenc44) same (display44 or print44))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 17:05
-	25	((trace or profile) near3 (diff or differenc44) same (display44 or print44) same (code or application or software or program))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 17:09
-	8	((trace or profile) near3 (diff or differenc44) same ((debug44 or test44 or simulat44 or emulat44) near3 (code or application or software or program))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 17:21
-	163	difference adj tool	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 17:34
-	20	("4696003" "4802165" "4864569" "5022028" "5086393" "5119377" "5157782" "5185867" "5218605" "5220658" "5233611" "5280626" "5335342" "5488727" "5495610" "5511185" "5548718" "5579476" "5598333" "5600789").PN. 5673387.URPM.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 17:26
-	6	((string near3 compar44) same (output near3 (diff or differenc44)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 17:32
-	6	(core near3 compar44) same (output near3 (diff or differenc44))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 17:47
-	556	703/4.ccls. and (output near3 compar44)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 17:47
-	99	703/4.ccls. and (output near3 compar44) and core	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 17:48

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-	3	703/\$.cc1s. and (output near3 compar\$4) and (core near3 1P)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/15 17:48
-	5	748688.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/17 13:26
-	0	748688.pran.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/17 13:26
-	6	748688.ap.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/17 13:29
-	2	9821679.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/17 13:29
-	104	(data adj string) near3 similar\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/21 08:23
-	245	excluded adj set	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/21 08:11
-	5	(excluded adj set) and (data adj string)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/21 08:11
-	1	((data adj string) near3 similar\$6) and 703/\$.cc1s.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/21 08:26
-	12	((data adj string) near3 similar\$6) same set	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/21 08:51
-	6	("4845610" "5459739" "5757959" "5761538" "5774588" "5832474").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/21 08:31
-	0	6295524.URPW.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/21 08:32
-	2	("4286330").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/21 08:52
-	9	("4218673" "4267562" "4433438" "4471459" "4490811" "4491962" "4494139" "4592090" "4652803").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/21 08:59
-	26	4845610.URPW.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/21 09:16
-	15	(symbol adj table) and (symbol adj array)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/21 12:40

-	198	(init\$4 or creat\$4) near3 (symbol adj table)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/21 12:45
-	38	703/4.ccls. and (regression adj test\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/21 14:10
-	58	(regression adj test\$4) near3 compar\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/21 14:12
-	78	("4306286" "4590581" "4635218" "4675646" "4845712" "4901255" "4937770" "4937827" "5036473" "5146460" "5281864" "5321828" "5329470" "5329471" "5369593" "5412260" "5425036" "5537580" "5546562" "5560089" "5568437" "5572712" "5574388" "5581742" "5596587" "5640542" "5644515" "5661662" "5663900" "5717699" "5748875" "5751735" "5754827" "5757819" "5777489" "5790032" "5801956" "5805859" "5812414" "5812562" "5822564" "5831868" "5870308" "5870410" "5905883" "5907697" "5933356" "5937190" "5943490" "5960191" "5963735" "5991523" "5999725" "6009256" "6014334" "6021447" "6026230" "6041176" "6057706" "6107821" "6132109" "6157210" "6182247" "6182268" "6188975" "6212490" "6240376" "6247147" "6286114" "6311317" "6334207" "6336087" "6212650" "6389586" "6427224" "6438735" "6449762" "6456961").PN.	2004/06/21 15:31	
-	107	diff and cmp	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/22 09:09
-	1	diff and cmp and grep	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/22 09:11
-	61	diff and cmp and (debug\$5 or test\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IRM_TDB	2004/06/22 09:11

- 9 **An attributive logic of set descriptions and set operations**
Suresh Manandhar
June 1984 **Proceedings of the 32nd conference on Association for Computational Linguistics**
Full text available: [pdf\(778.91 KB\)](#)
Additional Information: [full citation](#), [abstract](#), [references](#)
 Publisher Site
- This paper provides a model theoretic semantics to feature terms augmented with set descriptions. We provide constraints to specify HPSG style set descriptions, fixed cardinality set descriptions, set-membership constraints, restricted universal role quantifications, set union, intersection, subset and disjointness. A sound, complete and terminating consistency checking procedure is provided to determine the consistency of any given term in the logic. It is shown that determining consistency of ...
- 10 **Local Microcode Compaction Techniques**
David Landstov, Scott Davidson, Bruce Shriver, Patrick W. Mallett
September 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 3
Full text available: [pdf\(2.83 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
- 11 **Dynamic programming algorithms for haplotype block partitioning: applications to human chromosome 21 haplotype data**
Kui Zhang, Fengzhu Sun, Michael S. Waterman, Ting Chen
April 2003 **Proceedings of the seventh annual International conference on Computational molecular biology**
Full text available: [pdf\(482.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
- Recent studies have shown that the human genome has a haplotype block structure such that it can be divided into discrete blocks of limited haplotype diversity. Patil et al. [6] and Zhang et al. [12] developed algorithms to partition haplotypes into blocks with minimum number of tag SNPs for the entire chromosome. However, it is not clear how to partition haplotypes into blocks with restricted number of SNPs when only limited resources are available. In this paper, we first formulated this probl ...
- Keywords:** clustering, dynamic programming, haplotype block, local maximal haplotypes, tag SNPs
- 12 **Checking relational specifications with binary decision diagrams**
Craig A. Damon, Daniel Jackson, Somesh Jha
October 1986 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th ACM SIGSOFT symposium on Foundations of software engineering**, Volume 21 Issue 6
Full text available: [pdf\(971.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
- Checking a specification in a language based on sets and relations (such as Z) can be reduced to the problem of finding satisfying assignments, or models, of a relational formula. A new method for finding models using ordered binary decision diagrams (BDDs) is presented that appears to scale better than existing methods. Relational terms are replaced by matrices of boolean formulae. These formulae are then composed to give a boolean translation of the entire relational formula. Throughout, boolean ...

- 13 **Don't link me in: set based hypermedia for taxonomic reasoning**
H. Van Dyke Parunak
September 1991 **Proceedings of the third annual ACM conference on Hypertext**
Full text available: [pdf\(716.89 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
- 14 **Small is beautiful: discovering the minimal set of unexpected patterns**
Balaji Padmanabhan, Alexander Tuzhilin
August 2000 **Proceedings of the sixth ACM SIGKDD International conference on Knowledge discovery and data mining**
Full text available: [pdf\(106.83 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
- 15 **Cryptographic protocols: The verification of an industrial payment protocol: the SET purchase phase**
Giampaolo Bella, Lawrence C. Paulson, Fabio Massacci
November 2002 **Proceedings of the 9th ACM conference on Computer and communications security**
Full text available: [pdf\(209.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
- The Secure Electronic Transaction (SET) protocol has been proposed by a consortium of credit card companies and software corporations to secure e-commerce transactions. When the customer makes a purchase, the SET dual signature guarantees authenticity while keeping the customer's account details secret from the merchant and his choice of goods secret from the bank. This paper reports the first verification results for the complete purchase phase of SET. Using Isabelle and the inductive method, we ...
- Keywords:** electronic commerce, formal verification, inductive specifications, isabelle proof assistant, security protocols
- 16 **A depth-first branch-and-bound algorithm for optimal PLA folding**
Werner Grass
January 1982 **Proceedings of the 19th conference on Design automation**
Full text available: [pdf\(689.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
- In this paper we are concerned with the PLA folding problem defined by Hachtel, Newton and Sangiovanni-Vincentelli. We propose a depth first branch and bound procedure for optimizing simultaneous row and column folding. With our procedure one can compute such a PLA folding which is optimal with respect to different practical constraints. We present some results of an implemented algorithm that is restricted to row folding.
- 17 **Internationalization and character set standards**
Glenn Adams
September 1993 **StandardView**, Volume 1 Issue 1
Full text available: [pdf\(1.30 MB\)](#) Additional Information: [full citation](#), [index terms](#), [review](#)
- 18 **Energy Efficient Systems: Minimum-energy broadcast in all-wireless networks: NP-completeness and distribution issues**
Mario Zagall, Jean-Pierre Hubaux, Christian Enz

September 2002 **Proceedings of the 8th annual International conference on Mobile computing and networking**

Full text available: [pdf\(315.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In all-wireless networks a crucial problem is to minimize energy consumption, as in most cases the nodes are battery-operated. We focus on the problem of power-optimal broadcast, for which it is well known that the broadcast nature of the radio transmission can be exploited to optimize energy consumption. Several authors have conjectured that the problem of power-optimal broadcast is NP-complete. We provide here a formal proof, both for the general case and for the geometric one; in the former case ...

Keywords: broadcast algorithms, distributed algorithms, energy efficiency, minimum-energy networks, wireless ad hoc networks

19 Session 1B: Better streaming algorithms for clustering problems

Moses Charikar, Lidan O'Callaghan, Rina Panigrahy

June 2003 **Proceedings of the thirty-fifth ACM symposium on Theory of computing**

Full text available: [pdf\(237.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We study clustering problems in the streaming model, where the goal is to cluster a set of points by making one pass (or a few passes) over the data using a small amount of storage space. Our main result is a randomized algorithm for the k -Median problem which produces a constant factor approximation in one pass using storage space $O(k \cdot \text{poly}(\log n))$. This is a significant improvement of the previous best algorithm which yielded a $2^{O(k \log k)}$ approximation ...

Keywords: clustering, k -median, streaming algorithm

20 Distributed cooperation with action systems

R. J. R. Back, F. Kurki-Suonio

October 1988 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 10 Issue 4

Full text available: [pdf\(3.43 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Action systems provide a method to program distributed systems that emphasizes the overall behavior of the system. System behavior is described in terms of the possible interactions (actions) that the processes can engage in, rather than in terms of the sequential code that the processes execute. The actions provide a symmetric communication mechanism that permits an arbitrary number of processes to be synchronized by a common handshake. This is a generalization of the usual approach, employing ...

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"string comparison" data set

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Best 200 shown

Relevance scale ☐ ☐ ☐ ☐ ☐1 [Burst tries: a fast, efficient data structure for string keys](#)April 2002 [ACM Transactions on Information Systems \(TOIS\)](#), Volume 20 Issue 2Full text available: [pdf\(324.84 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Many applications depend on efficient management of large sets of distinct strings in memory. For example, during index construction for text databases a record is held for each distinct word in the text, containing the word itself and information such as counters. We propose a new data structure, the burst trie, that has significant advantages over existing options for such applications: it uses about the same memory as a binary search tree; it is as fast as a trie; and, while not as fast as a ...

Keywords: Binary trees, splay trees, string data structures, text databases, tries, vocabulary accumulation

2 [Integrating symbolic images into a multimedia database system using classification and abstraction approaches](#)

Aya Soffer, Hanan Samet

December 1998 [The VLDB Journal - The International Journal on Very Large Data Bases](#), Volume 7 Issue 4Full text available: [pdf\(227.30 KB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

Symbolic images are composed of a finite set of symbols that have a semantic meaning. Examples of symbolic images include maps (where the semantic meaning of the symbols is given in the legend), engineering drawings, and floor plans. Two approaches for supporting queries on symbolic-image databases that are based on image content are studied. The classification approach preprocesses all symbolic images and attaches a semantic classification and an associated certainty factor to each object that ...

Keywords: Image indexing, Multimedia databases, Query optimization, Retrieval by content, Spatial databases, Symbolic-image databases

3 [Research track: Mining data records in Web pages](#)

Bing Liu, Robert Grossman, Yanhong Zhai

August 2003 [Proceedings of the ninth ACM SIGKDD International conference on Knowledge discovery and data mining](#)
<http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=23120619&CFTOKEN=13117149>
Results (page 1): "string comparison" data set

Keywords: Data base, Data base management, Indexing, Information algebra, Information storage and retrieval, Information structure

7 [Enhancing data warehouse performance through query caching](#)

Aditya N. Saharia, Yair M. Babad

June 2000 [ACM SIGMIS Database](#), Volume 31 Issue 3Full text available: [pdf\(1.98 MB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

The main function of a data warehouse is the separation of the decision layer from the operation layer so that users can invoke analysis, planning, and decision support applications without having to worry about constantly evolving operational databases. Such applications allow ad hoc queries for which no predefined reports exist. It is possible that an ad hoc query is submitted by different users or even by the same user at different times, requiring its repeated evaluations even though the con ...

Keywords: adaptive query cache, data warehouse and repository, database management, decision support, design, information systems applications, intelligent databases, management, performance, query minimization, query processing, query subsumption

8 [On effective multi-dimensional indexing for strings](#)

H. V. Jagadish, Nick Koudas, Divesh Srivastava

May 2000 [ACM SIGMOD Record, Proceedings of the 2000 ACM SIGMOD International conference on Management of data](#), Volume 29 Issue 2Full text available: [pdf\(1.15 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As databases have expanded in scope from storing purely business data to include XML documents, product catalogs, e-mail messages, and directory data, it has become increasingly important to search databases based on wild-card string matching: prefix matching, for example, is more common (and useful) than exact matching, for such data. In many cases, matches need to be on multiple attributes/dimensions, with correlations between the dimensions. Traditional multi-dimensional index structures, ...

9 [XIRQL: An XML query language based on information retrieval concepts](#)

Norbert Fuhr, Kai Großjohann

April 2004 [ACM Transactions on Information Systems \(TOIS\)](#), Volume 22 Issue 2Full text available: [pdf\(281.91 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness for both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL are (1) document ranking based on index term weighting, (2) specificity-oriented search for retrieving the most relevant parts of documents, (3) datatypes with vague predicates for dealing with specific types of content and (4) structural vagueness f ...

Keywords: Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates

10 [Dictionary-based order-preserving string compression](#)

Gennady Antoshenkov

February 1997 [The VLDB Journal - The International Journal on Very Large Data Bases](#), Volume 6 Issue 1
<http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=23120619&CFTOKEN=13117149>
Full text available: [pdf\(297.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A large amount of information on the Web is contained in regularly structured objects, which we call *data records*. Such data records are important because they often present the essential information of their host pages, e.g., lists of products or services. It is useful to mine such data records in order to extract information from them to provide value-added services. Existing automatic techniques are not satisfactory because of their poor accuracies. In this paper, we propose a more eff ...

Keywords: Web data records, Web information integration, Web mining

4 [A Bayesian decision model for cost optimal record matching](#)

V. S. Verykios, G. V. Moustakides, M. G. Elfekey

May 2003 [The VLDB Journal - The International Journal on Very Large Data Bases](#), Volume 12 Issue 1Full text available: [pdf\(180.87 KB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

In an error-free system with perfectly clean data, the construction of a global view of the data consists of linking - in relational terms, joining - two or more tables on their key fields. Unfortunately, most of the time, these data are neither carefully controlled for quality nor necessarily defined commonly across different data sources. As a result, the creation of such a global data view resorts to approximate joins. In this paper, an optimal solution is proposed for the matching or the lin ...

Keywords: Cost optimal statistical model, Data cleaning, Record linkage

5 [Performance of data structures for small sets of strings](#)

Steffen Heinz, Justin Zobel

January 2002 [Australian Computer Science Communications, Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4](#), Volume 24 Issue 1Full text available: [pdf\(928.27 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Fundamental structures such as trees and hash tables are used for managing data in a huge variety of circumstances. Making the right choice of structure is essential to efficiency. In previous work we have explored the performance of a range of data structures---different forms of trees, tries, and hash tables---for the task of managing sets of millions of strings, and have developed new variants of each that are more efficient for this task than previous alternatives. In this paper we test the ...

Keywords: binary search tree, burst trie, data structures, inverted index, splay tree, trie

6 [An algebraic model of information structure and information processing](#)

Isamu Kobayashi

August 1972 [Proceedings of the ACM annual conference - Volume 2](#)Full text available: [pdf\(1.40 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper intends to clarify logical and physical information structures and essential operations in the data processing on them. Basic terminologies are due to Information Algebra originally proposed by CODASYL Language Structure Group in 1961, however, several new concepts have been introduced to ease the discussion from the software implementation point of view. The paper is included in internal research memorandum titled "Data Base Management Systems - a Theory and a Practice,&rd ...

[6/25/04http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=23120619&CFTOKEN=13117149](http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=23120619&CFTOKEN=13117149)
Page 3 of 6Results (page 1): "string comparison" data set
Full text available: [pdf\(203.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

As no database exists without indexes, no index implementation exists without order-preserving key compression, in particular, without prefix and tail compression. However, despite the great potentials of making indexes smaller and faster, application of general compression methods to ordered data sets has advanced very little. This paper demonstrates that the fast dictionary-based methods can be applied to order-preserving compression almost with the same freedom as in the general case. The pro ...

Keywords: Indexing, Order-preserving key compression

11 [Harp: a distributed query system for legacy public libraries and structured databases](#)

Ee-Peng Lim, Ying Lu

July 1999 [ACM Transactions on Information Systems \(TOIS\)](#), Volume 17 Issue 3Full text available: [pdf\(196.58 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The main purpose of a digital library is to facilitate users easy access to enormous amount of globally networked information. Typically, this information includes preexisting public library catalog data, digitized document collections, and other databases. In this article, we describe the distributed query system of a digital library prototype system known as HARP. In the HARP project, we have designed and implemented a distributed query processor and its query front-end to support integr ...

Keywords: Internet databases, digital libraries, Interoperable databases

12 [Customizing information capture and access](#)

Daniela Rus, Devika Subramanian

January 1997 [ACM Transactions on Information Systems \(TOIS\)](#), Volume 15 Issue 1Full text available: [pdf\(1.28 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article presents a customizable architecture for software agents that capture and access information in large, heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels of granularity to build high-level indices with task-specific interpretations. Information agents construct such indices and are configured as a network of reusable modules called structure detectors and segmenters. We illustrate our architectu ...

Keywords: information gathering, software agents, table recognition

13 [Technical contributions: A Fortraner's lament; comments on the draft proposed ANSI Fortran standard](#)

S. I. Feldman

December 1978 [ACM SIGPLAN Notices](#), Volume 11 Issue 12Full text available: [pdf\(990.14 KB\)](#)Additional Information: [full citation](#)14 [Session: Text alignment in the real world: improving alignments of noisy translations using common lexical features, string matching strategies and n-gram comparisons](#)

Mark W. Davis, Ted E. Dunning, William C. Ogden

March 1995 [Proceedings of the seventh conference on European chapter of the](#)
[6/25/04http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=23120619&CFTOKEN=13117149](http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=23120619&CFTOKEN=13117149)

6/25/04

Association for Computational Linguistics

Full text available: [pdf\(745.91 KB\)](#)[Publisher Site](#)Additional Information: [full citation](#), [abstract](#), [references](#)

Alignment methods based on byte-length comparisons of alignment blocks have been remarkably successful for aligning good translations from legislative transcriptions. For noisy translations in which the parallel text of a document has significant structural differences, byte-alignment methods often do not perform well. The Pan American Health Organization (PAHO) corpus is a series of articles that were first translated by machine methods and then improved by professional translators. Many of the ...

15 [Secure Data Publishing and Certificate Management: Flexible authentication of XML documents](#)

P. Devanbu, M. Gertz, A. Kwong, C. Martel, G. Nuckolls, S. G. Stubblebine
November 2001 *Proceedings of the 8th ACM conference on Computer and Communications Security*

Full text available: [pdf\(219.17 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XML is increasingly becoming the format of choice for information exchange, in critical areas such as government, finance, healthcare and law, where integrity is of the essence. As this trend grows, one can expect that documents (or collections thereof) may get quite large, and clients may wish to query for specific segments of these documents. In critical applications, clients must be assured that they are getting complete and correct answers to their queries. Existing methods for signing XML d ...

16 [Speech and gaze: A multimodal learning interface for grounding spoken language in sensory perceptions](#)

Chen Yu, Dana H. Ballard
November 2003 *Proceedings of the 5th international conference on Multimodal interfaces*

Full text available: [pdf\(849.59 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Most speech interfaces are based on natural language processing techniques that use pre-defined symbolic representations of word meanings and process only linguistic information. To understand and use language like their human counterparts in multimodal human-computer interaction, computers need to acquire spoken language and map it to other sensory perceptions. This paper presents a multimodal interface that learns to associate spoken language with perceptual features by being situated in users ...

Keywords: language acquisition, machine learning, multimodal integration

17 [Structure and transformation of documents: Mapping and displaying structural transformations between XML and PDF](#)

Matthew R. B. Hardy, David F. Brailsford
November 2002 *Proceedings of the 2002 ACM symposium on Document engineering*

Full text available: [pdf\(439.03 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Documents are often marked up in XML-based tagsets to delineate major structural components such as headings, paragraphs, figure captions and so on, without much regard to their eventual displayed appearance. And yet these same abstract documents, after many transformations and 'typesetting' processes, often emerge in the popular format of Adobe PDF, either for dissemination or archiving. Until recently PDF has been a totally display-based document representation, relying on the underlying PostSc ...

Keywords: PDF, XML, document structure transformation

18 [Experimental results from dynamic slicing of C programs](#)

G. A. Venkatesh
March 1995 *ACM Transactions on Programming Languages and Systems (TOPLAS)*, Volume 17 Issue 2

Full text available: [pdf\(1.22 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Program slicing is a program analysis technique that has been studied in the context of several different applications in the construction, optimization, maintenance, testing, and debugging of programs. Algorithms are available for constructing slices for a particular execution of a program (dynamic slices), as well as to approximate a subset of the behavior over all possible executions of a program (static slices). However, these algorithms have been studied only in the co ...

Keywords: program analysis, program slice

19 [Automatically extracting structure and data from business reports](#)

Stephen W. Liddle, Douglas M. Campbell, Chad Crawford
November 1999 *Proceedings of the eighth international conference on Information and knowledge management*

Full text available: [pdf\(1.04 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A considerable amount of clean semistructured data is internally available to companies in the form of business reports. However, business reports are untapped for data mining, data warehousing, and querying because they are not in relational form. Business reports have a regular structure that can be reconstructed. We present algorithms that automatically infer the regular structure underlying business reports and automatically generate wrappers to extract relational data.

Keywords: automatic wrapper generation, business reports, data and information extraction, regular expressions, report structure

20 [Citation linking: improving access to online journals](#)

S. Hitchcock, L. Carr, S. Harris, J. M. N. Hey, W. Hall
July 1997 *Proceedings of the second ACM international conference on Digital libraries*

Full text available: [pdf\(1.32 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: citation linking, electronic journals, hypermedia, hypertext, link services

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- 1 [Special session on on-chip multi-processing: Design experience of a chip multiprocessor merlot and expectation to functional verification](#)
 Satoshi Matsushita
 October 2002 [Proceedings of the 15th international symposium on System Synthesis](#)
 Full text available: [pdf\(179.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We have fabricated a Chip Multiprocessor prototype code-named Merlot to proof our novel speculative multithreading architecture. On Merlot, multiple threads provide wider issue window beyond ordinal instruction level parallel (ILP) processors like superscalar or VLIW. With the architecture, we estimate 3.0 times speedup against single processing elements (PE) on speech recognition code and IDCT code with four PEs. Merlot integrates on-chip devices, PCI interface, and SDRAM interfaces. We have en ...

Keywords: CMP, chip multiprocessor, design experience, functional verification, speculative multithreading

- 2 [Co-design architecture and synthesis: Program slicing for codesign](#)
 Jeffry T Russell
 May 2002 [Proceedings of the tenth international symposium on Hardware/software codesign](#)
 Full text available: [pdf\(538.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Program slicing is a software analysis technique that computes the set of operations in a program that may affect the computation at a particular operation. Interprocedural slicing techniques have separately addressed concurrent programs and hardware description languages. However, application of slicing to codesign of embedded systems requires dependence analysis across the hardware-software interface. We extend program slicing for a codesign environment. Hardware-software interactions common in ...

- 3 [Predicting the cost-effectiveness of regression testing strategies](#)
 David S. Rosenblum, Elaine J. Weyuker
 October 1990 [ACM SIGSOFT Software Engineering Notes](#), [Proceedings of the 4th ACM SIGSOFT symposium on Foundations of software engineering](#), Volume 21 Issue 6
 Full text available: [pdf\(778.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

<http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=23260045&CFTOKEN=12151257>
 Results (page 1): "regression test" processor cores

- 8 [An Implementation of the SSF Scalable Simulation Framework on the Cray MTA](#)
 Robert R. Henry, Simon H. Kahan, Jason Liu, David M. Nicol
 June 2003 [Proceedings of the seventeenth workshop on Parallel and distributed simulation](#)
 Full text available: [pdf\(184.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)
[Publisher Site](#)
- Large-scale parallel discrete event simulations of massivenetworks, such as the Internet, are "Grand Challenge" problems: packet level simulation of even a small fraction of the Internet would consume the resources of the most powerful computers available. We reimplement the SSF ScalableSimulation Framework so we can run large-scale networksimulations originally written for DaSSF. Our Implementation,CraySSF, is designed for the Cray-MTA, a multithreadedsupercomputer architecture developed specifca ...

- 9 [Design methodologies for system level IP](#)
 G. Martin
 February 1998 [Proceedings of the conference on Design, automation and test in Europe](#)
 Full text available: [pdf\(35.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
[Publisher Site](#)

System-chip design which starts at the RTL-level today has hit a plateau of productivity and re-use which can be characterized as a "Silicon Ceiling". Breaking through this plateau and moving to higher and more effective re-use of IP blocks and system-chip architectures demands a move to a new methodology: one in which the best aspects of today's RTL based methods are retained, but complemented by new levels of abstraction and the commensurate tools to allow designers to exploit the productivity ...

- 10 [Test program generation for functional verification of PowerPC processors in IBM](#)
 Aharon Aharon, Dave Goodman, Moshe Levinger, Yossi Lichtenstein, Yossi Maika, Charlotte Metzger, Moshe Molcho, Gil Shurek
 January 1995 [Proceedings of the 32nd ACM/IEEE conference on Design automation](#)
 Full text available: [pdf\(79.19 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

- 11 [Session 7B: Verification, validation and testing: Evolving legacy systems features using regression test cases and components](#)
 Alok Mehta, George T. Heineman
 September 2001 [Proceedings of the 4th international workshop on Principles of software evolution](#)
 Full text available: [pdf\(400.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

There is a constant need for practical, efficient and cost-effective software evolution techniques. We propose a novel evolution methodology that integrates the concepts of features and component-based software engineering (CBSE). We collect information about a legacy system's features through interviews with key developers, users of the system and analyzing the existing regression test cases. We found that regression test cases are untapped resources, as far as information about system features ...

Keywords: component based software engineering (CBSE), feature engineering, legacy systems, program slicing, refactoring, software evolution, source code renovation, testing

- 12 [Computing curricula 2001](#)
 September 2001 [Journal on Educational Resources in Computing \(JERIC\)](#)

Selective regression testing strategies aim at choosing an appropriate subset of test cases from among a previously run test suite for a software system, based on information about the changes made to the system to create new versions. Although there has been a significant amount of research in recent years on the design of such strategies, there has been significantly less investigation of their cost-effectiveness. In this paper some computationally efficient predictors of the cost-effectiveness ...

Keywords: cost estimation, regression testing, software analysis, test coverage

- 4 [Verification and management of a multimillion-gate embedded core design](#)
 Johann Notbauer, Thomas Albrecht, Georg Niedrist, Stefan Rohringer
 June 1999 [Proceedings of the 36th ACM/IEEE conference on Design automation](#)
 Full text available: [pdf\(67.20 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: HW/SW-coverification, cycle-based simulation

- 5 [Technical papers: software testing: The impact of test suite granularity on the cost-effectiveness of regression testing](#)
 Gregg Rothermel, Sebastian Elbaum, Alexey Malishevsky, Praveen Kallakuri, Brian Davia
 May 2002 [Proceedings of the 24th international conference on Software engineering](#)
 Full text available: [pdf\(1.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Regression testing is an expensive testing process used to validate software following modifications. The cost-effectiveness of regression testing techniques varies with characteristics of test suites. One such characteristic, test suite granularity, involves the way in which test inputs are grouped into test cases within a test suite. Various cost-benefits tradeoffs have been attributed to choices of test suite granularity, but almost no research has formally examined these tradeoffs. To address ...

- 6 [Technical papers: software maintenance: Evolving legacy system features into fine-grained components](#)
 Alok Mehta, George T. Heineman
 May 2002 [Proceedings of the 24th international conference on Software engineering](#)
 Full text available: [pdf\(1.42 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

There is a constant need for practical, efficient, and cost-effective software evolution techniques. We propose a novel evolution methodology that integrates the concepts of features, regression tests, and component-based software engineering (CBSE). Regression test cases are untapped resources, full of information about system features. By exercising each feature with its associated test cases using code profilers and similar tools, code can be located and refactored to create components. These ...

- 7 [Functional verification methodology of Chameleon processor](#)
 Françoise Casaubelli, Anthony McIsaac, Mike Benjamin, Mike Bartley, François Pogodalla, Frédéric Rocheteau, Mohamed Belhadj, Jeremy Eggleton, Gérard Mas, Geoff Barrett, Christian Berthet
 June 1998 [Proceedings of the 33rd annual conference on Design automation](#)
 Full text available: [pdf\(62.38 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

6/25/04<http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=23260045&CFTOKEN=12151257>
 Page 3 of 5 Results (page 1): "regression test" processor cores

Full text available: [pdf\(613.63 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)
[html\(2.78 KB\)](#)

- 13 [Application specific compiler/architecture codesign: a case study](#)
 Oliver Wahlen, Tilman Glöckler, Achim Nohl, Andreas Hoffmann, Rainer Leupers, Heinrich Meyr
 June 2002 [ACM SIGPLAN Notices](#), [Proceedings of the joint conference on Languages, compilers and tools for embedded systems: software and compilers for embedded systems](#), Volume 37 Issue 7
 Full text available: [pdf\(290.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes an architecture exploration methodology for application specific instruction set processors (ASIPs) including a C compiler and a VHDL model in the exploration loop. For a given application the target architecture is an instance of the scalable ALICE VLIW architecture which will be presented in this paper. In a case study it will be explained how the USA processor design platform in conjunction with the CoSy compiler environment significantly reduces the time for exploration ...

Keywords: ASIP, architecture exploration, retargetable compiler

- 14 [IS '97: model curriculum and guidelines for undergraduate degree programs in information systems](#)
 Gordon B. Davis, John T. Gorgone, J. Daniel Cougar, David L. Feinstein, Herbert E. Longenecker
 December 1997 [ACM SIGMIS Database](#), [Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems](#), Volume 28 Issue 1
 Full text available: [pdf\(7.24 MB\)](#) Additional Information: [full citation](#), [index terms](#)

- 15 [Hardware/software co-simulation in a VHDL-based test bench approach](#)
 Matthias Bauer, Wolfgang Ecker
 June 1997 [Proceedings of the 34th annual conference on Design automation](#)
 Full text available: [pdf\(88.32 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

- 16 [Functional verification of the equator MAP1000 microprocessor](#)
 Jian Shen, Jacob Abraham, Dave Baker, Tony Hurson, Martin Kinkade, Gregorio Gervasio, Chen-chau Chu, Guanghui Hu
 June 1999 [Proceedings of the 36th ACM/IEEE conference on Design automation](#)
 Full text available: [pdf\(3.73 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

- 17 [Validating the intel pentium 4 microprocessor](#)
 Bob Bentley
 June 2001 [Proceedings of the 38th conference on Design automation](#)
 Full text available: [pdf\(163.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
- Developing a new leading edge IA-32 micro-processor is an immensely complicated undertaking. In the case of the Pentium® 4 processor, the microarchitecture is significantly

more complex than any previous IA-32 microprocessor and the implementation borrows almost nothing from any previous implementation. This paper describes how we went about the task of finding bugs in the Pentium® 4 processor design prior to initial silicon, and what we found along the way.

18 Formal methods: state of the art and future directions

Edmund M. Clarke, Jeannette M. Wing


December 1998 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4

Full text available:  pdf (297,90 KB) Additional information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 Modelling and simulation: Emulation of an unconventional model of computation in Java

Aidan Delaney, Thomas J. Naughton

June 2002 **Proceedings of the inaugural conference on the Principles and Practice of programming, 2002 and Proceedings of the second workshop on Intermediate representation engineering for virtual machines, 2002**

Full text available:  pdf (464,63 KB) Additional information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the emulation of an unconventional model of computation inspired by the field of optical computing. Our development employed a combination of eXtreme Programming, unit and integration testing with junit, and design patterns. In the final product we implemented a novel content-routing message passing system and have realised the first debugger for an optical computer programming language.

20 World-class product certification using Erlang

Ulf Wiger, Gösta Ask, Kent Boortz

October 2002 **Proceedings of the 2002 ACM SIGPLAN workshop on Erlang**

Full text available:  pdf (182,28 KB) Additional information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It is now ten years ago since the decision was made to apply the functional programming language Erlang to real production projects at Ericsson. In late 1995, development on the Open Telecom Platform (OTP) started, and in mid 1996 the AXD 301 project became the first user of OTP. The AXD 301 Multi-service Switch was released in October 1998, and later became "the heart of ENGINE", Ericsson's leading Voice over Packet solution. In those early days of Erlang programming, high-level tools for developo ...

Keywords: erlang, testing

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Relevance scale ☐ ☐ ☐ ☐**1 Automated regression test generation**

Bogdan Korel, Ali M. Al-Yami

March 1998 **ACM SIGSOFT Software Engineering Notes, Proceedings of ACM SIGSOFT International symposium on Software testing and analysis**, Volume 23 Issue 2Full text available: [pdf\(1.06 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Regression testing involves testing the modified program in order to establish the confidence in the modifications. Existing regression testing methods generate test cases to satisfy selected testing criteria in the hope that this process may reveal faults in the modified program. In this paper we present a novel approach of automated regression test generation in which all generated test cases uncover an error(s). This approach is used to test the common functionality of the original program an ...

2 A safe, efficient regression test selection technique

Gregg Rothermel, Mary Jean Harrold

April 1997 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 6 Issue 2Full text available: [pdf\(730.74 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Regression testing is an expensive but necessary maintenance activity performed on modified software to provide confidence that changes are correct and do not adversely affect other portions of the software. A regression test selection technique chooses, from an existing test set, tests that are deemed necessary to validate modified software. We present a new technique for regression test selection. Our algorithms construct control flow graphs for a procedure or program and its modified ver ...

Keywords: regression test selection, regression testing, selective retest**3 Technical papers: software testing: The impact of test suite granularity on the cost-effectiveness of regression testing**Gregg Rothermel, Sebastian Elbaum, Alexey Malishevsky, Praveen Kallakuri, Brian Davis May 2002 **Proceedings of the 24th International conference on Software engineering**Full text available: [pdf\(1.37 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Regression testing is an expensive testing process used to validate software following modifications. The cost-effectiveness of regression testing techniques varies with characteristics of test suites. One such characteristic, test suite granularity, involves the way

In which test inputs are grouped into test cases within a test suite. Various cost-benefits tradeoffs have been attributed to choices of test suite granularity, but almost no research has formally examined these tradeoffs. To address ...

4 A comparative study of coarse- and fine-grained safe regression test-selection techniques

John Bible, Gregg Rothermel, David S. Rosenblum

April 2001 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 10 Issue 2Full text available: [pdf\(204.13 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Regression test-selection techniques reduce the cost of regression testing by selecting a subset of an existing test suite to use in retesting a modified program. Over the past two decades, numerous regression test-selection techniques have been described in the literature. Initial empirical studies of some of these techniques have suggested that they can indeed benefit testers, but so far, few studies have empirically compared different techniques. In this paper, we present ...

Keywords: regression test selection, regression testing**5 Technical papers: software maintenance: Evolving legacy system features into fine-grained components**

Alok Mehta, George T. Heineman

May 2002 **Proceedings of the 24th International conference on Software engineering**Full text available: [pdf\(1.42 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

There is a constant need for practical, efficient, and cost-effective software evolution techniques. We propose a novel evolution methodology that integrates the concepts of features, regression tests, and component-based software engineering (CBSE). Regression test cases are untapped resources, full of information about system features. By exercising each feature with its associated test cases using code profilers and similar tools, code can be located and refactored to create components. These ...

6 Selecting tests and identifying test coverage requirements for modified software

Gregg Rothermel, Mary Jean Harrold

August 1994 **Proceedings of the 1994 International symposium on Software testing and analysis**Full text available: [pdf\(1.69 MB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**7 A framework for evaluating regression test selection techniques**

Gregg Rothermel, Mary Jean Harrold

May 1994 **Proceedings of the 16th International conference on Software engineering**Full text available: [pdf\(1.09 MB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**8 Teacher specification and student implementation of a unit testing methodology in an introductory programming course**

Robin M. Snyder

January 2004 **The Journal of Computing in Small Colleges**, Volume 19 Issue 3Full text available: [pdf\(30.33 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
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 Page 4 of 5

Left to their own devices, students in the introductory CS1 programming course can have a difficult time developing and implementing a systematic testing methodology that covers sufficient test case to insure that the program being developed meets specifications and does not fail with test cases that meet the specifications. In addition, the teacher can use such testing support in more quickly grading programs that the students create. This paper presents a general specification method that allo ...

9 Re-estimation of software reliability after maintenance

Andy Podgurski, Elaine J. Weyuker

May 1997 **Proceedings of the 19th International conference on Software engineering**Full text available: [pdf\(832.45 KB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**Keywords:** regression testing, software reliability, software testing**10 An overview of regression testing**

Nancy J. Wahl

January 1999 **ACM SIGSOFT Software Engineering Notes**, Volume 24 Issue 1Full text available: [pdf\(809.39 KB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

Regression testing is an important part of the software development life cycle. Many articles have been published lately detailing the different approaches. This article is an overview of regression testing in the following areas: types of regression testing; unit, integration and system level testing, regression testing of global variables, regression testing of object-oriented software, comparisons of selective regression techniques, and cost comparisons of the types of regression testing.

11 TestTube: a system for selective regression testing

Yih-Farn Chen, David S. Rosenblum, Kiem-Phong Vo

May 1994 **Proceedings of the 16th International conference on Software engineering**Full text available: [pdf\(1.04 MB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**12 Automated test oracles for GUIs**

Ali H. Memon, Martha E. Pollack, Mary Lou Soffa

November 2000 **ACM SIGSOFT Software Engineering Notes, Proceedings of the 8th ACM SIGSOFT International symposium on Foundations of software engineering: twenty-first century applications**, Volume 25 Issue 6Full text available: [pdf\(1.29 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Graphical User Interfaces (GUIs) are critical components of today's software. Because GUIs have different characteristics than traditional software, conventional testing techniques do not apply to GUI software. In previous work, we presented an approach to generate GUI test cases, which take the form of sequences of actions. In this paper we develop a test oracle technique to determine if a GUI behaves as expected for a given test case. Our oracle uses a formal model of a GUI, expressed as se ...

Keywords: GUI test oracles, GUI testing, automated oracles**13 VisFiles: Visualization toolkit extreme testing**

Bill Hibbard, Bill Lorensen, Jim Miller

August 2001 **ACM SIGGRAPH Computer Graphics**, Volume 35 Issue 3Full text available: [pdf\(1.27 MB\)](#)Additional Information: [full citation](#)**14 Regression testing in an industrial environment**

Akira K. Onoma, Wei-Tek Tsai, Mustafa Poonawala, Hiroshi Suganuma

May 1998 **Communications of the ACM**, Volume 41 Issue 5Full text available: [pdf\(187.36 KB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)**15 What's GNU: Bash-The GNU Shell**

Chet Ramey

August 1994 **Linux Journal**Full text available: [html\(21.98 KB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**16 A retrospective on software engineering in design automation**

L. A. O'Neill

January 1982 **Proceedings of the 19th conference on Design automation**Full text available: [pdf\(520.71 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We have observed the effect that software engineering can have on design automation throughout the four years of the Designer's Workbench (DWB) project. DWB is a design aids delivery system that interfaces the user to a variety of applications programs. This paper describes our experience in using various techniques and our conclusions about their value. The improvements that occurred in the second design iteration illustrate the effect of using a consistent methodology. The introduction of ...

17 Regression test selection for Java software

Mary Jean Harrold, James A. Jones, Tongyu Li, Donglin Liang, Ashish Gujarathi

October 2001 **ACM SIGPLAN Notices, Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications**, Volume 36 Issue 11Full text available: [pdf\(292.35 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Regression testing is applied to modified software to provide confidence that the changed parts behave as intended and that the unchanged parts have not been adversely affected by the modifications. To reduce the cost of regression testing, test cases are selected from the test suite that was used to test the original version of the software---this process is called regression test selection. A safe regression-test-selection algorithm selects every test case in the test suite that may rev ...

18 Analysis and testing of Web applications

Filippo Ricca, Paolo Tonella

July 2001 **Proceedings of the 23rd International conference on Software engineering**Full text available: [pdf\(167.56 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)[Publisher Site](#)

The economic relevance of Web applications increases the importance of controlling and improving their quality. Moreover, the new available technologies for their development

allow the insertion of sophisticated functions, but often leave the developers responsible for their organization and evolution. As a consequence, a high demand is emerging for methodologies and tools for quality assurance of Web based systems.

In this paper, a UML model of Web applications is proposed for their ...

Keywords: UML modeling, code analysis, reverse engineering, testing, web applications

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November 1996 *Proceedings of the 28th conference on Winter simulation*

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20 [Contemporary software development environments](#)

William E. Howden

May 1982 *Communications of the ACM*, Volume 25 Issue 5

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There are a wide variety of software development tools and methods currently available or which could be built using current research and technology. These tools and methods can be organized into four software development environments, ranging in complexity from a simple environment containing few automated tools or expensive methods to a complete one including many automated tools and built around a software engineering database. The environments were designed by considering the life-cycle ...

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
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
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